

# **RATIONALE**

**FOR**

## **THE TENNESSEE STORM WATER MULTI-SECTOR GENERAL PERMIT FOR INDUSTRIAL ACTIVITIES**

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## **1 Introduction**

This permit rationale (or fact sheet) sets forth the Division of Water Pollution Control's (the division's) basis for permit conditions to be applied statewide for the reissuance of the Tennessee Storm Water Multi-Sector General Permit for Industrial Activities (TMSP). The TMSP is intended to authorize industrial storm water discharges to waters of the State of Tennessee from industrial facilities.

## **2 Background**

The Tennessee Storm Water Multi-Sector General Permit for Industrial Activities (TMSP) is intended to cover storm water discharges to waters of the State of Tennessee from a wide variety of industrial activities and is derived from, and based in large part upon, the Final National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector General Permit for Industrial Activities as promulgated by the Environmental Protection Agency (EPA) in Federal Register / Vol. 65, No. 210 / Monday, October 30, 2000, and the proposed NPDES General Permit for Storm Water Discharges from Industrial Activities in Federal Register / Vol. 70, No. 230/ Thursday, December 1, 2005. Because the conditions that affect the presence of pollutants in storm water discharges vary among industries, this permit contains industry-specific sections (sectors) that describe the storm water pollution prevention plan requirements, the numeric effluent limitations requirements and the monitoring requirements for each permitted industry. These industry-specific sectors are contained in part 11 of this permit and are described in this Rationale. There are also a number of permit requirements that apply to all industries. These requirements may be found in parts 1 through 10 of the permit body. They include the general coverage discussion, the Notice of Intent requirements and the standard permit conditions.

## TMSP Rationale

A tabulation of the industrial activities covered by Tennessee’s proposed general permit, including references to applicable monitoring requirements for each particular sector and SIC codes, is presented below. Shaded sub-sectors indicate that the sampling requirements are changed from “No” in the previous permit to “Yes” for this permit.

SIC Code	Industrial Activity	Sampling Required?	Table Number
<b>Sector A: Timber Products Facilities</b>			
2411	Logging	Yes	A-3
2421	Sawmills and Planing Mills, General	Yes	A-1
2426	Hardwood Dimension and Flooring Mills	Yes	A-4
2429	Special Product Sawmills, NEC	Yes	A-4
2431	Millwork	Yes	A-4
2435	Hardwood Veneer and Plywood	Yes	A-4
2436	Softwood Veneer and Plywood	Yes	A-4
2439	Structural Wood Members, Not Elsewhere Classified (NEC)	Yes	A-4
2441	Nailed and Lock Corner Wood Boxes and Shook	Yes	A-4
2448	Wood Pallets and Skids	Yes	A-4
2449	Wood Containers, NEC	Yes	A-4
2451	Mobile Homes	Yes	A-4
2452	Prefabricated Wood Buildings and Components	Yes	A-4
2491	Wood Preserving	Yes	A-2
2493	Reconstituted Wood Products	Yes	A-4
2499	Wood Products, NEC	Yes	A-4
<b>Sector B: Paper and Allied Products Manufacturing Facilities</b>			
2611	Pulp Mills	Yes	B-2
2621	Paper Mills	Yes	B-2
2631	Paperboard Mills	Yes	B-1
2652	Setup Paperboard Boxes	Yes	B-2
2653	Corrugated and Solid Fiber Boxes	Yes	B-2
2655	Fiber Cans, Tubes, Drums, and Similar Products	Yes	B-2
2656	Sanitary Food Containers, Except Folding	Yes	B-2
2657	Folding Paperboard Boxes, Including Sanitary	Yes	B-2
2671	Packaging Paper and Plastics Film, Coated and Laminated	Yes	B-2
2672	Coated and Laminated Paper, NEC	Yes	B-2
2673	Plastics, Foil, and Coated Paper Bags	Yes	B-2
2674	Uncoated Paper and Multiwall Bags	Yes	B-2
2675	Die-Cut Paper and Paperboard and Cardboard	Yes	B-2
2676	Sanitary Paper Products	Yes	B-2
2677	Envelopes	Yes	B-2
2678	Stationery, Tablets, and Related Products	Yes	B-2
2679	Converted Paper and Paperboard Products, NEC	Yes	B-2
<b>Sector C: Chemical and Allied Products Manufacturing Facilities</b>			
2812	Alkalies and Chlorine	Yes	C-3
2813	Industrial Gases	Yes	C-3
2816	Inorganic Pigments	Yes	C-3
2819	Industrial Inorganic Chemicals, NEC	Yes	C-3
2821	Plastics Material Synthetic Resins, and Nonvulcanizable Elastomers	Yes	C-5
2822	Synthetic Rubber	Yes	C-5
2823	Cellulosic Manmade Fibers	Yes	C-5
2824	Manmade Organic Fibers, Except Cellulosic	Yes	C-5
2833	Medicinal Chemicals and Botanical Products	Yes	C-6
2834	Pharmaceutical Preparations	Yes	C-6
2835	In Vitro and In Vivo Diagnostic Substances	Yes	C-6
2836	Biological Products, Except Diagnostic Substances	Yes	C-6
2841	Soaps and Other Detergents, Except Specialty Cleaners	Yes	C-4

SIC Code	Industrial Activity	Sampling Required?	Table Number
2842	Specialty Cleaning, Polishing, and Sanitary Preparations	Yes	C-4
2843	Surface Active Agents, Finishing Agents, Sulfonated Oils, and Assistants	Yes	C-4
2844	Perfumes, Cosmetics, and Other Toilet Preparations	Yes	C-4
2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products	No	--
2861	Gum and Wood Chemicals	No	--
2865	Cyclic Organic Crudes and Intermediates, and Organic Dyes and Pigments	No	--
2869	Industrial Organic Chemicals, NEC	No	--
2873	Nitrogenous Fertilizers	Yes	C-2
2874	Phosphatic Fertilizers	Yes	C-2
2875	Fertilizers, Mixing Only	Yes	C-2
2879	Pesticides and Agricultural Chemicals, NEC	Yes	C-2
2891	Adhesives and Sealants	No	--
2892	Explosives	No	--
2893	Printing Ink	No	--
2895	Carbon Black	No	--
2899	Chemicals and Chemical Preparations, NEC	No	--
<b>Sector D: Asphalt Paving, Roofing Materials, and Lubricant Manufacturing Facilities</b>			
2951	Asphalt Paving Mixtures and Blocks	Yes	D-1
2952	Asphalt Felts and Coatings	Yes	D-1
2992	Lubricating Oils and Greases	Yes	D-1
<b>Sector E: Glass, Clay, Cement, Concrete, and Gypsum Product Manufacturing Facilities</b>			
3211	Flat Glass	Yes	E-3
3221	Glass Containers	Yes	E-3
3229	Pressed and Blown Glass and Glassware, NEC	Yes	E-3
3231	Glass Products, Made of Purchased Glass	Yes	E-3
3241	Cement, Hydraulic	Yes	E-3
3251	Brick and Structural Clay Tile	Yes	E-1
3253	Ceramic Wall and Floor Tile	Yes	E-1
3255	Clay Refractories	Yes	E-1
3259	Structural Clay Products, NEC	Yes	E-1
3261	Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories	Yes	E-1
3262	Vitreous China Table and Kitchen Articles	Yes	E-1
3263	Fine Earthenware (Whiteware) Table and Kitchen Articles	Yes	E-1
3264	Porcelain Electrical Supplies	Yes	E-1
3269	Pottery Products, NEC	Yes	E-1
3271	Concrete Block and Brick	Yes	E-2
3272	Concrete Products, Except Block and Brick	Yes	E-2
3273	Ready-Mixed Concrete	Yes	E-2
3274	Lime	Yes	E-2
3275	Gypsum Products	Yes	E-2
3281	Cut Stone and Stone Products	Yes	E-3
3291	Abrasive Products	Yes	E-3
3292	Asbestos Products	Yes	E-3
3295	Minerals and Earths, Ground or Otherwise Treated	Yes	E-3
3296	Mineral Wool	Yes	E-3
3297	Nonclay Refractories	Yes	E-3
3299	Nonmetallic Mineral Products, NEC	Yes	E-3
<b>Sector F: Primary Metals Facilities</b>			
3312	Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills	Yes	F-1
3313	Electrometallurgical Products, Except Steel	Yes	F-1
3315	Steel Wiredrawing and Steel Nails and Spikes	Yes	F-1
3316	Cold-Rolled Steel Sheet, Strip, and Bars	Yes	F-1
3317	Steel Pipe and Tubes	Yes	F-1

SIC Code	Industrial Activity	Sampling Required?	Table Number
3321	Gray and Ductile Iron Foundries	Yes	F-2
3322	Malleable Iron Foundries	Yes	F-2
3324	Steel Investment Foundries	Yes	F-2
3325	Steel Foundries, NEC	Yes	F-2
3331	Primary Smelting and Refining of Copper	No	--
3334	Primary Production of Aluminum	No	--
3339	Primary Smelting and Refining of Nonferrous Metals, Except Copper and Aluminum	No	--
3341	Secondary Smelting and Refining of Nonferrous Metals	No	--
3351	Rolling, Drawing, and Extruding of Copper	Yes	F-3
3353	Aluminum Sheet, Plate, and Foil	Yes	F-3
3354	Aluminum Extruded Products	Yes	F-3
3355	Aluminum Rolling and Drawing, NEC	Yes	F-3
3356	Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum	Yes	F-3
3357	Drawing and Insulating of Nonferrous Wire	Yes	F-3
3363	Aluminum Die-Castings	Yes	F-4
3364	Nonferrous Die-Castings, Except Aluminum	Yes	F-4
3365	Aluminum Foundries	Yes	F-4
3366	Copper Foundries	Yes	F-4
3369	Nonferrous Foundries, Except Aluminum and Copper	Yes	F-4
3398	Metal Heat Treating	No	--
3399	Primary Metal Products, NEC	No	--
<b>Sector G: Metal Mines (Ore Mining and Dressing) (RESERVED)</b>			
1011	Iron Ores	No	--
1021	Copper Ores	No	--
1031	Lead and Zinc Ores	No	--
1041	Gold Ores	No	--
1044	Silver Ores	No	--
1061	Ferroalloy Ores, Except Vanadium	No	--
1081	Metal Mining Services	No	--
1094	Uranium-Radium-Vanadium Ores	No	--
1099	Miscellaneous Metal Ores, NEC	No	--
<b>Sector H: Inactive Coal Mines and Inactive Coal Mining-Related Facilities</b>			
1221	Bituminous Coal and Lignite Surface Mining	Yes	H-1
1222	Bituminous Coal Underground Mining	Yes	H-1
1231	Anthracite Mining	Yes	H-1
1241	Coal Mining Services	Yes	H-1
<b>Sector I: Oil or Gas Extraction Facilities</b>			
1311	Crude Petroleum and Natural Gas	Yes	I-1
1321	Natural Gas Liquids	Yes	I-1
1381	Drilling Oil and Gas Wells	Yes	I-1
1382	Oil and Gas Field Exploration Services	Yes	I-1
1389	Oil and Gas Field Services, NEC	Yes	I-1
2911	Petroleum Refining	Yes	I-1
<b>Sector J: Construction Sand and Gravel Mining and Processing and Dimension Stone Mining and Quarrying Facilities</b>			
1411	Dimension Stone	Yes	J-2
1422	Crushed and Broken Limestone	Yes	J-2
1423	Crushed and Broken Granite	Yes	J-2
1429	Crushed and Broken Stone, NEC	Yes	J-2
1442	Construction Sand and Gravel	Yes	J-1
1446	Industrial Sand	Yes	J-1
1455	Kaolin and Ball Clay	Yes	J-2

SIC Code	Industrial Activity	Sampling Required?	Table Number
1459	Clay, Ceramic, and Refractory Minerals, NEC	Yes	J-2
1474	Potash, Soda, and Borate Minerals	Yes	J-2
1475	Phosphate Rock	Yes	J-2
1479	Chemical and Fertilizer Mineral Mining, NEC	Yes	J-2
1481	Nonmetallic Minerals Services Except Fuels	Yes	J-2
1499	Miscellaneous Nonmetallic Minerals, Except Fuels	Yes	J-2
<b>Sector K: Hazardous Waste Treatment Storage or Disposal Facilities</b>			
--	Hazardous Waste Treatment Storage or Disposal Facilities (TSDF)	Yes	K-1
<b>Sector L: Landfills and Land Application Sites</b>			
4953	Refuse Systems	Yes	L-2
<b>Sector M: Automobile Salvage Yards</b>			
5015	Motor Vehicle Parts, Used	Yes	M-1
<b>Sector N: Scrap Recycling and Waste and Recycling Facilities</b>			
5093	Scrap and Waste Materials	Yes	N-1
<b>Sector O: Steam Electric Power Generating Facilities</b>			
4911	Electric Services	Yes	O-1
<b>Sector P: Vehicle Maintenance or Equipment Cleaning areas at Motor Freight Transportation Facilities, Passenger Transportation Facilities, Petroleum Bulk Oil Stations and Terminals, the United States Postal Service, or Railroad Transportation Facilities</b>			
4011	Railroads, Line-haul Operating	Yes	P-1
4013	Railroad Switching and Terminal Establishments	Yes	P-1
4111	Local and Suburban Transit	Yes	P-1
4119	Local Passenger Transportation, NEC	Yes	P-1
4121	Taxicabs	Yes	P-1
4131	Intercity and Rural Bus Transportation	Yes	P-1
4141	Local Bus Charter Service	Yes	P-1
4142	Bus Charter Service, Except Local	Yes	P-1
4151	School Buses	Yes	P-1
4173	Terminal and Service Facilities for Motor Vehicle Passenger Transportation	Yes	P-1
4212	Local Trucking Without Storage	Yes	P-1
4213	Trucking, Except Local	Yes	P-1
4214	Local Trucking with Storage	Yes	P-1
4215	Couriers Services Except by Air	Yes	P-1
4221	Farm Product Warehousing and Storage	Yes	P-1
4222	Refrigerated Warehousing and Storage	Yes	P-1
4225	General Warehousing and Storage	Yes	P-1
4226	Special Warehousing and Storage, NEC	Yes	P-1
4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	Yes	P-1
4311	United States Postal Service	Yes	P-1
5171	Petroleum Bulk Stations and Terminals	Yes	P-1
<b>Sector Q: Vehicle Maintenance Areas and Equipment Cleaning Areas of Water Transportation Facilities</b>			
4412	Deep Sea Foreign Transportation of Freight	Yes	Q-1
4424	Deep Sea Domestic Transportation of Freight	Yes	Q-1
4432	Freight Transportation on the Great Lakes - St. Lawrence Seaway	Yes	Q-1
4449	Water Transportation of Freight, NEC	Yes	Q-1
4481	Deep Sea Transportation of Passengers, Except by Ferry	Yes	Q-1
4482	Ferries	Yes	Q-1
4489	Water Transportation of Passengers, NEC	Yes	Q-1
4491	Marine Cargo Handling	Yes	Q-1
4492	Towing and Tugboat Services	Yes	Q-1

SIC Code	Industrial Activity	Sampling Required?	Table Number
4493	Marinas	Yes	Q-1
4499	Water Transportation Services, NEC	Yes	Q-1
<b>Sector R: Ship or Boat Building and Repair Yards</b>			
3731	Ship Building and Repairing	Yes	R-1
3732	Boat Building and Repairing	Yes	R-1
<b>Sector S: Vehicle Maintenance Areas, Equipment Cleaning Areas or From Airport Deicing Operations located at Air Transportation Facilities</b>			
4512	Air Transportation, Scheduled	No*	S-1
4513	Air Courier Services	No*	S-1
4522	Air Transportation, Nonscheduled	No*	S-1
4581	Airports, Flying Fields, and Airport Terminal Services	No*	S-1
* Except for airports that use more than 100,000 gallons of glycol-based deicing/anti-icing chemicals and/or 100 tons or more of urea on an average annual basis: see Part 5: "Monitoring and Reporting Requirements."			
<b>Sector T: Wastewater Treatment Works</b>			
4952	Sewerage Systems	Yes	T-1
<b>Sector U: Food and Kindred Products Facilities</b>			
2011	Meat Packing Plants	Yes	U-1
2013	Sausages and Other Prepared Meats	Yes	U-1
2015	Poultry Slaughtering and Processing	Yes	U-1
2021	Creamery Butter	Yes	U-1
2022	Natural, Processed, and Imitation Cheese	Yes	U-1
2023	Dry, Condensed, and Evaporated Dairy Products	Yes	U-1
2024	Ice Cream and Frozen Desserts	Yes	U-1
2026	Fluid Milk	Yes	U-1
2032	Canned Specialties	Yes	U-1
2033	Canned Fruits, Vegetables, Preserves, Jams, and Jellies	Yes	U-1
2034	Dried and Dehydrated Fruits, Vegetables, and Soup Mixes	Yes	U-1
2035	Pickled Fruits and Vegetables, Vegetables Sauces and Seasonings, and Salad Dressings	Yes	U-1
2037	Frozen Fruits, Fruit Juices, and Vegetables	Yes	U-1
2038	Frozen Specialties, NEC	Yes	U-1
2041	Flour and Other Grain Mill Products	Yes	U-2
2043	Cereal Breakfast Foods	Yes	U-2
2044	Rice Milling	Yes	U-2
2045	Prepared Flour Mixes and Doughs	Yes	U-2
2046	Wet Corn Milling	Yes	U-2
2047	Dog and Cat Food	Yes	U-2
2048	Prepared Feed and Feed Ingredients for Animals and Fowls, Except Dogs and Cats	Yes	U-2
2051	Bread and Other Bakery Products, Except Cookies and Crackers	Yes	U-1
2052	Cookies and Crackers	Yes	U-1
2053	Frozen Bakery Products, Except Bread	Yes	U-1
2061	Cane Sugar, Except Refining	Yes	U-1
2062	Cane Sugar Refining	Yes	U-1
2063	Beet Sugar	Yes	U-1
2064	Candy and Other Confectionery Products	Yes	U-1
2066	Chocolate and Cocoa Products	Yes	U-1
2067	Chewing Gum	Yes	U-1
2068	Salted and Roasted Nuts and Seeds	Yes	U-1
2074	Cottonseed Oil Mills	Yes	U-2
2075	Soybean Oil Mills	Yes	U-2
2076	Vegetable Oil Mills, Except Corn, Cottonseed, and Soybeans	Yes	U-2
2077	Animal and Marine Fats and Oils	Yes	U-2
2079	Shortening, Table Oils, Margarine, and Other Edible Fats and Oils, NEC	Yes	U-2

SIC Code	Industrial Activity	Sampling Required?	Table Number
2082	Malt Beverages	Yes	U-1
2083	Malt	Yes	U-1
2084	Wines, Brandy, and Brandy Spirits	Yes	U-1
2085	Distilled and Blended Liquors	Yes	U-1
2086	Bottled and Canned Soft Drinks and Carbonated Waters	Yes	U-1
2087	Flavoring Extracts and Flavoring Syrups NEC	Yes	U-1
2091	Canned and Cured Fish and Seafood	Yes	U-1
2092	Prepared Fresh or Frozen Fish and Seafoods	Yes	U-1
2095	Roasted Coffee	Yes	U-1
2096	Potato Chips, Corn Chips, and Similar Snacks	Yes	U-1
2097	Manufactured Ice	Yes	U-1
2098	Macaroni, Spaghetti, Vermicelli, and Noodles	Yes	U-1
2099	Food Preparations, NEC	Yes	U-1
2111	Cigarettes	Yes	U-1
2121	Cigars	Yes	U-1
2131	Chewing and Smoking Tobacco and Snuff	Yes	U-1
2141	Tobacco Stemming and Redrying	Yes	U-1
<b>Sector V: Textile Mills, Apparel and other Fabric Product Manufacturing Facilities; and Leather and Leather Products</b>			
2211	Broadwoven Fabric Mills, Cotton	Yes	V-1
2221	Broadwoven Fabric Mills, Manmade Fiber and Silk	Yes	V-1
2231	Broadwoven Fabric Mills, Wool (Including Dyeing and Finishing)	Yes	V-1
2241	Narrow Fabric and Other Smallware Mills: Cotton, Wool, Silk, and Manmade Fiber	Yes	V-1
2251	Women's Full-Length and Knee-Length Hosiery, Except Socks	Yes	V-1
2252	Hosiery, NEC	Yes	V-1
2253	Knit Outerwear Mills	Yes	V-1
2254	Knit Underwear and Nightwear Mills	Yes	V-1
2257	Weft Knit Fabric Mills	Yes	V-1
2258	Lace and Warp Knit Fabric Mills	Yes	V-1
2259	Knitting Mills, NEC	Yes	V-1
2261	Finishers of Broadwoven Fabrics of Cotton	Yes	V-1
2262	Finishers of Broadwoven Fabrics of Manmade Fiber and Silk	Yes	V-1
2269	Finishers of Textiles, NEC	Yes	V-1
2273	Carpets and Rugs	Yes	V-1
2281	Yarn Spinning Mills	Yes	V-1
2282	Yarn Texturizing, Throwing, Twisting, and Winding Mills	Yes	V-1
2284	Thread Mills	Yes	V-1
2295	Coated Fabrics, Not Rubberized	Yes	V-1
2296	Tire Cord and Fabrics	Yes	V-1
2297	Nonwoven Fabrics	Yes	V-1
2298	Cordage and Twine	Yes	V-1
2299	Textile Goods, NEC	Yes	V-1
2311	Men's and Boys' Suits, Coats and Overcoats	Yes	V-1
2321	Men's and Boys' Shirts, Except Work Shirts	Yes	V-1
2322	Men's and Boys' Underwear and Nightwear	Yes	V-1
2323	Men's and Boys' Neckwear	Yes	V-1
2325	Men's and Boys' Trousers and Slacks	Yes	V-1
2326	Men's and Boys' Work Clothing	Yes	V-1
2329	Men's and Boys' Clothing, NEC	Yes	V-1
2331	Women's, Misses', and Juniors' Blouses and Shirts	Yes	V-1
2335	Women's, Misses' and Junior's Dresses	Yes	V-1
2337	Women's, Misses' and Juniors' Suits, Skirts and Coats	Yes	V-1
2339	Women's, Misses' and Juniors' Outerwear, NEC	Yes	V-1
2341	Women's, Misses, Children's, and Infants' Underwear and Nightwear	Yes	V-1

SIC Code	Industrial Activity	Sampling Required?	Table Number
2342	Brassieres, Girdles, and Allied Garments	Yes	V-1
2353	Hats, Caps, and Millinery	Yes	V-1
2361	Girls', Children's and Infants' Dresses, Blouses and Shirts	Yes	V-1
2369	Girls', Children's and Infants' Outerwear, NEC	Yes	V-1
2371	Fur Goods	Yes	V-1
2381	Dress and Work Gloves, Except Knit and All-Leather	Yes	V-1
2384	Robes and Dressing Gowns	Yes	V-1
2385	Waterproof Outerwear	Yes	V-1
2386	Leather and Sheep-Lined Clothing	Yes	V-1
2387	Apparel Belts	Yes	V-1
2389	Apparel and Accessories, NEC	Yes	V-1
2391	Curtains and Draperies	Yes	V-1
2392	House furnishings, Except Curtains and Draperies	Yes	V-1
2393	Textile Bags	Yes	V-1
2394	Canvas and Related Products	Yes	V-1
2395	Pleating, Decorative and Novelty Stitching, and Tucking for the Trade	Yes	V-1
2396	Automotive Trimmings, Apparel Findings, and Related Products	Yes	V-1
2397	Schiffli Machine Embroideries	Yes	V-1
2399	Fabricated Textile Products, NEC	Yes	V-1
3131	Boot and Shoe Cut Stock and Findings	Yes	V-1
3142	House Slippers	Yes	V-1
3143	Men's Footwear, Except Athletic	Yes	V-1
3144	Women's Footwear, Except Athletic	Yes	V-1
3149	Footwear, Except Rubber, NEC	Yes	V-1
3151	Leather Gloves and Mittens	Yes	V-1
3161	Luggage	Yes	V-1
3171	Women's Handbags and Purses	Yes	V-1
3172	Personal Leather Goods, Except Women's Handbags and Purses	Yes	V-1
3199	Leather Goods, Not Elsewhere Classified	Yes	V-1
<b>Sector W: Furniture and Fixture Manufacturing Facilities</b>			
2434	Wood Kitchen Cabinets	Yes	W-1
2511	Wood Household Furniture, Except Upholstered	Yes	W-1
2512	Wood Household Furniture, Upholstered	Yes	W-1
2514	Metal Household Furniture	Yes	W-1
2515	Mattresses, Foundations, and Convertible Beds	Yes	W-1
2517	Wood Television, Radio, Phonograph and Sewing Machine Cabinets	Yes	W-1
2519	Household Furniture, NEC	Yes	W-1
2521	Wood Office Furniture	Yes	W-1
2522	Office Furniture, Except Wood	Yes	W-1
2531	Public Building and Related Furniture	Yes	W-1
2541	Wood Office and Store Fixtures, Partitions, Shelving, and Lockers	Yes	W-1
2542	Office and Store Fixtures, Partitions Shelving, and Lockers, Except Wood	Yes	W-1
2591	Draperies Hardware and Window Blinds and Shades	Yes	W-1
2599	Furniture and Fixtures, NEC	Yes	W-1
<b>Sector X: Printing and Platemaking Facilities</b>			
2711	Newspapers: Publishing, or Publishing and printing	Yes	X-1
2721	Periodicals: Publishing, or Publishing and Printing	Yes	X-1
2731	Book Publishing	Yes	X-1
2732	Book Printing	Yes	X-1
2741	Miscellaneous Printing	Yes	X-1
2752	Commercial Printing, Lithographic	Yes	X-1
2754	Commercial Printing, Gravure	Yes	X-1
2759	Commercial Printing, NEC	Yes	X-1
2761	Manifold Business Forms	Yes	X-1
2771	Greeting Cards	Yes	X-1



SIC Code	Industrial Activity	Sampling Required?	Table Number
2782	Blankbooks, Looseleaf Binders and devices	Yes	X-1
2789	Bookbinding and Related Work	Yes	X-1
2791	Typesetting	Yes	X-1
2796	Platemaking and Related Services	Yes	X-1
<b>Sector Y: Rubber and Miscellaneous Plastic Product Manufacturing Facilities</b>			
3011	Tires and Inner Tubes	Yes	Y-1
3021	Rubber and Plastics Footwear	Yes	Y-1
3052	Rubber and Plastics Hose and Belting	Yes	Y-1
3053	Gaskets, Packing, and Sealing Devices	Yes	Y-1
3061	Molded, Extruded, and Lathe-Cut Mechanical Rubber Products	Yes	Y-1
3069	Fabricated Rubber Products, NEC	Yes	Y-1
3081	Unsupported Plastics Film and Sheet	Yes	Y-2
3082	Unsupported Plastics Profile Shapes	Yes	Y-2
3083	Laminated Plastics Plate, Sheet, and Profile Shapes	Yes	Y-2
3084	Plastic Pipe	Yes	Y-2
3085	Plastics Bottles	Yes	Y-2
3086	Plastics Foam Products	Yes	Y-2
3087	Custom Compounding of Purchased Plastics Resins	Yes	Y-2
3088	Plastics Plumbing Fixtures	Yes	Y-2
3089	Plastics Products, NEC	Yes	Y-2
3931	Musical Instruments	Yes	Y-2
3942	Dolls and Stuffed Toys	Yes	Y-2
3944	Games, Toys, and Children's Vehicles, Except Dolls and Bicycles	Yes	Y-2
3949	Sporting and Athletic Goods, NEC	Yes	Y-2
3951	Pens, Mechanical Pencils and Parts	Yes	Y-2
3952	Lead Pencils, Crayons, and Artist's Materials	Yes	Y-2
3953	Marking Devices	Yes	Y-2
3955	Carbon Paper and Inked Ribbons	Yes	Y-2
3961	Costume Jewelry and Costume Novelties, Except Precious Metals	Yes	Y-2
3965	Fasteners, Buttons, Needles, and Pins	Yes	Y-2
3991	Brooms and Brushes	Yes	Y-2
3993	Signs and Advertising Specialties	Yes	Y-2
3995	Burial Caskets	Yes	Y-2
3996	Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, NEC	Yes	Y-2
3999	Manufacturing Industries, NEC	Yes	Y-2
<b>Sector Z: Leather Tanning and Finishing Facilities</b>			
3111	Leather Tanning and Finishing	Yes	Z-1
<b>Sector AA: Facilities That Manufacture Metal Products including Jewelry, Silverware and Plated Ware</b>			
3411	Metal Cans	Yes	AA-1
3412	Metal Shipping Barrels, Drums, Kegs, and Pails	Yes	AA-1
3421	Cutlery	Yes	AA-1
3423	Hand and Edge Tools, Except Machine Tools and Handsaws	Yes	AA-1
3425	Saw Blades and Handsaws	Yes	AA-1
3429	Hardware, NEC	Yes	AA-1
3431	Enameled Iron and Metal Sanitary Ware	Yes	AA-1
3432	Plumbing Fixture Fittings and Trim	Yes	AA-1
3433	Heating Equipment, Except Electric and Warm Air Furnaces	Yes	AA-1
3441	Fabricated Structural Metal	Yes	AA-1
3442	Metal Doors, Sash, Frames, Molding, and Trim Manufacturing	Yes	AA-1
3443	Fabricated Plate Work (Boiler Shops)	Yes	AA-1
3444	Sheet Metal Work	Yes	AA-1
3446	Architectural and Ornamental Metal Work	Yes	AA-1
3448	Prefabricated Metal Buildings and Components	Yes	AA-1

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SIC Code	Industrial Activity	Sampling Required?	Table Number
3449	Miscellaneous Structural Metal Work	Yes	AA-1
3451	Screw Machine Products	Yes	AA-1
3452	Bolts, Nuts, Screws, Rivets, and Washers	Yes	AA-1
3462	Iron and Steel Forgings	Yes	AA-1
3463	Nonferrous Forgings	Yes	AA-1
3465	Automotive Stamping	Yes	AA-1
3466	Crowns and Closures	Yes	AA-1
3469	Metal Stamping, NEC	Yes	AA-1
3471	Electroplating, Plating, Polishing, Anodizing, and Coloring	Yes	AA-2
3479	Coating, Engraving, and Allied Services, NEC	Yes	AA-2
3482	Small Arms Ammunition	Yes	AA-1
3483	Ammunition, Except Small Arms	Yes	AA-1
3484	Small Arms	Yes	AA-1
3489	Ordnance and Accessories, NEC	Yes	AA-1
3491	Industrial Valves	Yes	AA-1
3492	Fluid Power Valves and Hose Fittings	Yes	AA-1
3493	Steel Springs, Except Wire	Yes	AA-1
3494	Valves and Pipe Fittings, NEC	Yes	AA-1
3495	Wire Springs	Yes	AA-1
3496	Miscellaneous Fabricated Wire Products	Yes	AA-1
3497	Metal Foil and Leaf	Yes	AA-1
3498	Fabricated Pipe and Pipe Fittings	Yes	AA-1
3499	Fabricated Metal Products, NEC	Yes	AA-1
3911	Jewelry, Precious Metal	Yes	AA-1
3914	Silverware, Plated Ware, and Stainless Steel Ware	Yes	AA-1
3915	Jewelers' Findings and Materials, and Lapidary Work	Yes	AA-1
<b>Sector AB: Facilities That Manufacture Transportation Equipment, Industrial or Commercial Machinery</b>			
3511	Steam, Gas, and Hydraulic Turbines, and Turbine Generator Set Units	Yes	AB-1
3519	Internal Combustion Engines, NEC	Yes	AB-1
3523	Farm Machinery and Equipment	Yes	AB-1
3524	Lawn and Garden Tractors and Home Lawn and Garden Equipment	Yes	AB-1
3531	Construction Machinery and Equipment	Yes	AB-1
3532	Mining Machinery and Equipment, Except Oil and Gas Field Machinery and Equipment	Yes	AB-1
3533	Oil and Gas Field Machinery and Equipment	Yes	AB-1
3534	Elevators and Moving Stairways	Yes	AB-1
3535	Conveyors and Conveying Equipment	Yes	AB-1
3536	Overhead Traveling Cranes, Hoists and Monorail Systems	Yes	AB-1
3537	Industrial Trucks, Tractors, Trailers, and Stackers	Yes	AB-1
3541	Machine Tools, Metal Cutting Type	Yes	AB-1
3542	Machine Tools, Metal Forming Type	Yes	AB-1
3543	Industrial Patterns	Yes	AB-1
3544	Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds	Yes	AB-1
3545	Cutting Tools, Machine Tool Accessories, and Machinists' Precision Measuring Devices	Yes	AB-1
3546	Power-Driven Handtools	Yes	AB-1
3547	Rolling Mill Machinery and Equipment	Yes	AB-1
3548	Electric and Gas Welding and Soldering Equipment	Yes	AB-1
3549	Metalworking Machinery, NEC	Yes	AB-1
3552	Textile Machinery	Yes	AB-1
3553	Woodworking Machinery	Yes	AB-1
3554	Paper Industries Machinery	Yes	AB-1
3555	Printing Trades Machinery and Equipment	Yes	AB-1
3556	Food Products Machinery	Yes	AB-1

SIC Code	Industrial Activity	Sampling Required?	Table Number
3559	Special Industry Machinery, NEC	Yes	AB-1
3561	Pumps and Pumping Equipment	Yes	AB-1
3562	Ball and Roller Bearings	Yes	AB-1
3563	Air and Gas Compressors	Yes	AB-1
3564	Industrial and Commercial Fans and Blowers and Air Purification Equipment	Yes	AB-1
3565	Packaging Machinery	Yes	AB-1
3566	Speed Changers, Industrial High-Speed Drives, and Gears	Yes	AB-1
3567	Industrial Process Furnaces and Ovens	Yes	AB-1
3568	Mechanical Power Transmission Equipment, NEC	Yes	AB-1
3569	General Industrial Machinery and Equipment, NEC	Yes	AB-1
3581	Automatic Vending Machines	Yes	AB-1
3582	Commercial Laundry, Drycleaning, and Pressing Machines	Yes	AB-1
3585	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment	Yes	AB-1
3586	Measuring and Dispensing Pumps	Yes	AB-1
3589	Service Industry Machinery, NEC	Yes	AB-1
3592	Carburetors, Pistons, Piston Rings and Valves	Yes	AB-1
3593	Fluid Power Cylinders and Actuators	Yes	AB-1
3594	Fluid Power Pumps and Motors	Yes	AB-1
3596	Scales and Balances, Except Laboratory	Yes	AB-1
3599	Industrial and Commercial Machinery and Equipment, NEC	Yes	AB-1
3711	Motor Vehicles and Passenger Car Bodies	Yes	AB-1
3713	Truck and Bus Bodies	Yes	AB-1
3714	Motor Vehicle Parts and Accessories	Yes	AB-1
3715	Truck Trailers	Yes	AB-1
3716	Motor Homes	Yes	AB-1
3721	Aircraft	Yes	AB-1
3724	Aircraft Engines and Engine Parts	Yes	AB-1
3728	Aircraft Parts and Auxiliary Equipment, NEC	Yes	AB-1
3743	Railroad Equipment	Yes	AB-1
3751	Motorcycles, Bicycles, and Parts	Yes	AB-1
3761	Guided Missiles and Space Vehicles	Yes	AB-1
3764	Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts	Yes	AB-1
3769	Guided Missile Space Vehicle Parts and Auxiliary Equipment, NEC	Yes	AB-1
3792	Travel Trailers and Campers	Yes	AB-1
3795	Tanks and Tank Components	Yes	AB-1
3799	Transportation Equipment, NEC	Yes	AB-1
<b>Sector AC: Facilities That Manufacture Electronic and Electrical Equipment and Components, Photographic and Optical Goods</b>			
3571	Electronic Computers	Yes	AC-2
3572	Computer Storage Devices	Yes	AC-2
3575	Computer Terminals	Yes	AC-2
3577	Computer Peripheral Equipment, NEC	Yes	AC-2
3578	Calculating and Accounting Machines, Except Electronic Computers	Yes	AC-2
3579	Office Machines, NEC	Yes	AC-2
3612	Power, Distribution, and Specialty Transformers	Yes	AC-1
3613	Switchgear and Switchboard Apparatus	Yes	AC-1
3621	Motors and Generators	Yes	AC-1
3624	Carbon and Graphite Products	Yes	AC-1
3625	Relays and Industrial Controls	Yes	AC-1
3629	Electrical Industrial Apparatus, NEC	Yes	AC-1
3631	Household Cooking Equipment	Yes	AC-1
3632	Household Refrigerators and Home and Farm Freezers	Yes	AC-1
3633	Household Laundry Equipment	Yes	AC-1

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SIC Code	Industrial Activity	Sampling Required?	Table Number
3634	Electric Housewares and Fans	Yes	AC-1
3635	Household Vacuum Cleaners	Yes	AC-1
3639	Household Appliances, NEC	Yes	AC-1
3641	Electric Lamp Bulbs and Tubes	Yes	AC-1
3643	Current-Carrying Wiring Devices	Yes	AC-1
3644	Noncurrent-Carrying Wiring Devices	Yes	AC-1
3645	Residential Electric Lighting Fixtures	Yes	AC-1
3646	Commercial, Industrial, and Institutional Electric Lighting Fixtures	Yes	AC-1
3647	Vehicular Lighting Equipment	Yes	AC-1
3648	Lighting Equipment, NEC	Yes	AC-1
3651	Household Audio and Video Equipment	Yes	AC-1
3652	Phonograph Records and Precorded Audio Tapes and Disks	Yes	AC-1
3661	Telephone and Telegraph Apparatus	Yes	AC-1
3663	Radio and Television Broadcasting and Communication Equipment	Yes	AC-1
3669	Communications Equipment, NEC	Yes	AC-1
3671	Electron Tubes	Yes	AC-1
3672	Printed Circuit Boards	Yes	AC-1
3674	Semiconductors and Related Devices	Yes	AC-1
3675	Electronic Capacitors	Yes	AC-1
3676	Electronic Resistors	Yes	AC-1
3677	Electronic Coils, Transformers, and Other Inductors	Yes	AC-1
3678	Electronic Connectors	Yes	AC-1
3679	Electronic Components, NEC	Yes	AC-1
3691	Storage Batteries	Yes	AC-1
3692	Primary Batteries, Dry and Wet	Yes	AC-1
3694	Electrical Equipment for Internal Combustion Engines	Yes	AC-1
3695	Magnetic and Optical Recording Media	Yes	AC-1
3699	Electrical Machinery, Equipment, and Supplies, NEC	Yes	AC-1
3812	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments	Yes	AC-2
3821	Laboratory Apparatus and Furniture	Yes	AC-2
3822	Automatic Controls for Regulating Residential and Commercial Environments and Appliances	Yes	AC-2
3823	Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products	Yes	AC-2
3824	Totalizing Fluid Meters and Counting Devices	Yes	AC-2
3825	Instruments for Measuring and Testing of Electricity and Electrical Signals	Yes	AC-2
3826	Laboratory Analytical Instruments	Yes	AC-2
3827	Optical Instruments and Lenses	Yes	AC-2
3829	Measuring and Controlling Devices, NEC	Yes	AC-2
3841	Surgical and Medical Instruments and Apparatus	Yes	AC-2
3842	Orthopedic, Prosthetic, and Surgical Appliances and Supplies	Yes	AC-2
3843	Dental Equipment and Supplies	Yes	AC-2
3844	X-Ray Apparatus and Tubes and Related Irradiation Apparatus	Yes	AC-2
3845	Electromedical and Electrotherapeutic Apparatus	Yes	AC-2
3851	Ophthalmic Goods	Yes	AC-2
3861	Photographic Equipment and Supplies	Yes	AC-2
3873	Watches, Clocks, Clockwork Operated Devices and Parts	Yes	AC-2
<b>Sector AD: Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Required)</b>			
9999	Nonclassifiable Establishments	Yes	AD-1
<b>Sector AE: Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring <u>Not</u> Required)</b>			
9999	Nonclassifiable Establishments	No	--

### 3 Types of Discharges Covered

This permit covers storm water discharges associated with industrial activity from the 11 industrial categories which the EPA has determined to contain storm water discharges consistent with the EPA's definition of "storm water discharges associated with industrial activity." These 11 categories have been regrouped into the 29 industrial sectors based upon similarities in the nature of the industrial activity, the type of materials handled and material management practices employed. This permit also covers storm water discharges associated with industrial activity from those industries which will not be, or are not, covered under sectors A thru AC. The requirements listed under sections AD and AE apply to storm water discharges associated with industrial activity from those facilities that are not covered for such discharges under Sectors A thru AC, but due to nature of manufacturing or industrial process at a site, do **not** require analytical monitoring of storm water runoff.

Generally, the term "storm water discharges associated with industrial activity" means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. This is only part of the extensive definition of such discharges as promulgated by the EPA at 40 CFR §122.26(b)(14). Four types of storm water discharges subject to effluent limitation guidelines may be covered under this permit if they are not already subject to an existing or expired NPDES permit. These discharges include contaminated storm water runoff from phosphate fertilizer manufacturing facilities, runoff associated with either asphalt paving or roofing emulsion production, runoff from material storage piles at cement manufacturing facilities, and coal pile runoff at steam electric generating facilities. This permit does not, however, authorize all storm water discharges subject to effluent guidelines. Storm water discharges subject to effluent guidelines under 40 CFR §436 or for mine drainage under 40 CFR §440 are not covered under this permit nor are discharges subject to effluent guidelines for acid or alkaline mine drainage under 40 CFR §434.

Because of the broad scope of this permit, most industrial activities currently regulated under the storm water program may be covered by the permit. There are, however, storm water discharges that are not covered under this permit. Storm water discharges subject to an existing individual NPDES permit are not covered under this permit. The Division of Water Pollution Control believes that in most cases these discharges are more appropriately covered under terms and conditions of their existing permit. These discharges may be covered under this permit only when the existing permit has expired and only when the expired permit did not contain numeric effluent limitations more stringent than those in this permit. Construction activities are not eligible for coverage under this permit. Storm water discharges that were subject to a permit that was terminated as a result of the permittee's request are eligible for coverage under this permit. Storm water discharges from industrial activities that are not addressed in the appropriate section of part 11 of this permit are not eligible for coverage under this permit.

### 4 Monitoring Requirements

This permit requires analytical monitoring for discharges from certain classes of industrial facilities. The division believes that industries may reduce the level of pollutants in storm water runoff from their sites through the development and proper implementation of a storm water pollution prevention plan (SWPPP) as discussed in this permit. The permit only requires analytical monitoring for the industry sectors or subsectors that demonstrated a potential to discharge pollutants at concentrations of concern.

To determine when such analytical monitoring would be required, the EPA established “benchmark” concentrations for the pollutant parameters on which monitoring results had been received. The “benchmarks” are the pollutant concentrations above which the EPA determined represents a level of concern. The level of concern is a concentration at which a storm water discharge could potentially impair, or contribute to impairing water quality or affect human health from ingestion of water or fish. The benchmarks are also viewed by the division as a level, that if below, a facility represents little potential for water quality concern. As such, the benchmarks also provide an appropriate level to determine whether a facility’s storm water pollution prevention measures are successfully implemented. The benchmark concentrations are not effluent limitations and should not be interpreted or construed as such. These values are merely levels which the division is using to determine if a storm water discharge from any given facility merits further monitoring to insure that the facility has been successful in implementing a storm water pollution prevention plan. As such, these levels represent a target concentration for a facility to achieve through implementation of pollution prevention measures at the facility.

## **5 Proposed Changes in the New TMSP**

### **5.1 Applicants are not authorized to discharge storm water from industrial activity sites until they receive a copy of the Notice of Coverage (NOC) from the division.**

The Notice of Coverage (NOC) is a written notice from the division sent to the permittee, informing the permittee that the Notice of Intent (NOI) was received and storm water discharges from the facility have been approved under this general permit. The operator is authorized to discharge storm water as of the effective date the division prepares the Notice of Coverage (NOC).

Assigning a permit tracking number by the division to a proposed discharge from an industrial facility does not confirm or imply an authorization to discharge under this permit. Correspondence with the permittee is maintained through the primary contact person listed on the NOI.

### **5.2 Facilities covered under the current permit on December 31, 2006 will not need to submit a Notice of Intent (NOI) under proposed general permit.**

An operator of an existing facility presently permitted under the existing general permit shall be automatically covered under this new general permit. The division will notify all permittees regarding an extension of coverage under the new permit. There will be no application fees associated with an extension of coverage for existing sites under the new permit. The division may, at its discretion, require permittees to confirm their intent to be covered under this new general permit following its effective date.

### **5.3 Annual monitoring reports will be submitted to the appropriate Environmental Field Office (EFO) for the county where the facility is located. A list of EFOs and their addresses are available in subpart 3.3 of the permit.**

The EFOs have the ability to enter the monitoring data from their respective offices through the statewide data base. This will allow the EFO to more quickly review the monitoring data and take appropriate action.

**5.4 Monitoring for total suspended solids (TSS) has been added to a number of sectors. Refer to the table in part 1 (Background) above, for an indication of the changes to the monitoring requirements.**

The total suspended solids (TSS) parameter, which applied to a number of the sectors under the previous general TMSP permit, has been expanded to all discharges under this permit. TSS is a reasonable screen or indicator of storm water discharge quality since many storm water pollutants are themselves suspended solids, or enter receiving waters attached to solids.

**5.5 Monitoring for oil and grease (O/G) has been added to a number of sectors.**

The oil and grease (O/G) parameter has been added to the following sectors because O/G is a reasonable indicator of the quality of the storm water for sectors: Sectors D, I, M, P, Q, S and AB.

**5.6 Monitoring for ammonia has been added to Sector C.**

The ammonia parameter has been added to Sector C because it is expected to be a reasonable indicator of the quality of storm water.

**5.7 Monitoring for aluminum has been added to Sector F.**

The aluminum parameter has been added to Sector F because it is expected to be a reasonable indicator of the quality of storm water.

**5.8 Analysis for total suspended solids (TSS) has been added to each sector requiring analysis, where it was not otherwise included in the previous general permit. At the same time the benchmark for TSS will be reduced from 200 mg/l to 150 mg/l.**

Based on the all available data, the number of exceedances for TSS will increase from 14 to 19 percent with this change.

**5.9 Benchmarks for a number of pollutants have been lowered from the previous values. The values for cadmium, copper, cyanide, selenium and silver were lowered to the ambient water quality criteria. The values for antimony and arsenic are also revised. The changed benchmarks, in mg/L, are listed in the following table:**

<u>Parameter</u>	<u>Current</u>	<u>New</u>
Antimony	0.636	0.64
Arsenic	0.16854	0.15
Cadmium	0.0159	0.0021
Copper	0.0636	0.014
Cyanide	0.0636	0.022
Selenium	0.2385	0.005
Silver	0.0318	0.0038

**5.10 Benchmarks for metals that were previously included in TMSP as Criterion Maximum Concentration (CMC) values, and which are hardness and TSS dependent, were adjusted to in-stream allowable criteria using a hardness of 25 mg/L (most conservative assumption as defined in the General Water Quality Criteria) and TSS of 31 mg/L (median value of 8,216**

**TSS samples reported under previous permit). The effected benchmarks for Lead, Nickel and Zinc are presented in the following table:**

<u>Parameter</u>	<u>Current</u>	<u>New</u>
<b>Lead</b>	<b>0.156</b>	<b>0.091</b>
<b>Nickel</b>	<b>2.679</b>	<b>0.453</b>
<b>Zinc</b>	<b>0.395</b>	<b>0.161</b>

Metals that were previously included in TMSP as Criterion Maximum Concentration (CMC) values, and for which Fish & Aquatic Life Criteria are expressed as a function of total hardness and total suspended solids (TSS) content are Lead, Nickel and Zinc. The Fish & Aquatic Life criteria for these metals are in the dissolved form at laboratory conditions. The in-stream allowable criteria and calculated effluent concentrations are in the total recoverable form.

The values for total hardness and TSS had to be selected to be representative of the conditions typical for all areas of the State of Tennessee, while still being protective of water quality criteria supporting the designated uses of all waters of the state. The most conservative assumption for hardness for Tennessee was to use the value of 25 mg/L, as stated in the General Water Quality Criteria, Rule 1200-4-3-.03, (3) Fish and Aquatic Life, (g) Toxic Substances: "If criteria are hardness-dependent, the chronic (CCC) and acute (CMC) concentrations shall be based on 25 mg/l hardness if the ambient hardness is less than 25 mg/l. Concentrations shall be based on the actual stream hardness if it is greater than 25 mg/l, however, no hardness greater than 400 mg/l will be used."

The value for TSS of 31 mg/L was the median value of 8,216 TSS samples as reported under previous TMSP permits. The average value for the same set of samples of 179 mg/L was considered to be too high to be representative of critical conditions and TSS content of any receiving stream across the State of Tennessee.

Criteria for these metals are expressed as a function of total hardness (mg/L), as follows:

$$\text{CMC} = \exp\{m_A [\ln(\text{hardness})] + b_A\}$$

$$\text{CCC} = \exp\{m_C [\ln(\text{hardness})] + b_C\}$$

	$m_A$	$b_A$	$m_C$	$b_C$
Lead	1.273	-1.460	1.273	-4.705
Nickel	0.8460	2.255	0.8460	0.0584
Zinc	0.8473	0.884	0.8473	0.884

Using the above formulas in our standardized worksheet, the following values were calculated:



<p><b>WATER QUALITY BASED EFFLUENT CALCULATIONS</b></p> <p><b>FOR SELECTED PARAMETERS FOR STORM WATER</b></p>
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Stream (1Q10)	Waste Flow	Ttl. Susp. Solids	Hardness (as CaCO3)	Stream Allocation
[MGD]	[MGD]	[mg/l]	[mg/l]	[%]
Any Flow	Any Flow	31	25	100

	1	2	3	4	5	6	7
EFFLUENT CHARACTERISTIC	Fish/Aqua. Life Water Quality Criteria		Effluent Fraction Dissolved	Fish & Aquatic Life Water Quality Criteria (7Q10)			
	Chronic	Acute		In-Stream Allowable		Calc. Effluent Concentration	
				Chronic	Acute	Chronic	Acute
	[ug/l]	[ug/l]	[Fraction]	[ug/l]	[ug/l]	[ug/l]	[ug/l]
Lead	0.541	13.882	0.152	3.551	91.130	3.6	91.1
Nickel	16.896	144.918	0.319	50.401	453.784	50.4	453.8
Zinc	36.498	36.202	0.224	162.657	161.337	162.7	161.3

A description of each data column is as follows:

**Column 1:** The "Chronic" Fish and Aquatic Life Water Quality Criteria. For Lead, Nickel, and Zinc, this value represents the criteria for the dissolved form at laboratory conditions. The Criteria Continuous Concentration (CCC) is calculated using the equation:

$$CCC = (\exp \{ m_C [ \ln (\text{stream hardness}) ] + b_C \} ) (CCF)$$

CCF = Chronic Conversion Factor

This equation and the appropriate coefficients for each metal are from Tennessee Rule 1200-4-3-.03 and the EPA guidance contained in *The Metals Translator: Guidance For Calculating A Total Recoverable Permit Limit From a Dissolved Criterion* (EPA 823-B-96-007, June 1996). Values for other metals are in the total form and are not hardness dependent; no chronic criteria exists for silver. Published criteria are used for non-metal parameters.

**Column 2:** The "Acute" Fish and Aquatic Life Water Quality Criteria. For Lead, Nickel, Silver, and Zinc, this value represents the criteria for the dissolved form at laboratory conditions. The Criteria Maximum Concentration (CMC) is calculated using the equation:

$$CMC = (\exp \{ m_A [ \ln (\text{stream hardness}) ] + b_A \} ) (ACF)$$

ACF = Acute Conversion Factor

This equation and the appropriate coefficients for each metal are from Tennessee Rule 1200-4-3-.03 and the EPA guidance contained in *The Metals Translator: Guidance For Calculating A Total Recoverable Permit Limit From a Dissolved Criterion* (EPA 823-B-96-007, June 1996). Values for other metals are in the total form and are not hardness dependent; no acute criteria exists for Total Chromium. Published criteria are used for non-metal parameters.

**Column 3:** The "Translator" converts the value for dissolved metal at laboratory conditions (columns 2 & 3) to total recoverable metal at in-stream ambient conditions (columns 5 & 6). This

factor is calculated using the linear partition coefficients found in *The Metals Translator: Guidance For Calculating A Total Recoverable Permit Limit From a Dissolved Criterion* (EPA 823-B-96-007, June 1996) and the equation:

$$\frac{C_{\text{diss}}}{C_{\text{total}}} = \frac{1}{1 + \{ [K_{\text{po}}] [ss^{(1+a)}] [10^{-6}] \}}$$

ss = in-stream suspended solids concentration [mg/l]

**Column 4:** The "Chronic" Fish and Aquatic Life Water Quality Criteria at in-stream ambient conditions. This criteria is calculated by dividing the value in column 2 by the value in column 4.

**Column 5:** The "Acute" Fish and Aquatic Life Water Quality Criteria at in-stream ambient conditions. This criteria is calculated by dividing the value in column 3 by the value in column 4.

**Column 6:** The "Chronic" Calculated Effluent Concentration for the protection of fish and aquatic life. This is the Chronic limit.

**Column 7:** The "Acute" Calculated Effluent Concentration for the protection of fish and aquatic life. This is the Acute limit.

The above described adjustments of benchmarks would affect sampling in 5 instances for Lead, 0 for Nickel, and 13 for Zinc in various sectors of the TMSP.

The following table compares the current benchmark and the proposed benchmark by parameter as selected by the division. The shaded values indicate changes in the benchmark value.

**Parameter Benchmark Values**

Parameter Name	Current Benchmark	Proposed Benchmark	Source (*)
Aluminum, Total (pH 6.5-9)	0.75 mg/L	0.75 mg/L	1
Ammonia	4 mg/L	4 mg/L	1
Antimony, Total	0.636 mg/L	0.64 mg/L	3
Arsenic, Total (c)	0.15 mg/L	0.15 mg/L	12
Benzene	0.01 mg/L	0.01 mg/L	10
Beryllium, Total (c)	0.13 mg/L	0.13 mg/L	2
Biochemical Oxygen Demand (5 day)	30 mg/L	30 mg/L	4
Cadmium, Total (H)	0.0159 mg/L	0.0021 mg/L	1
Chemical Oxygen Demand	120 mg/L	120 mg/L	5
Chloride	860 mg/L	860 mg/L	1
Copper, Total (H)	0.0636 mg/L	0.014 mg/L	1
Cyanide	None	0.022 mg/l	1
Iron, Total	5.0 mg/L	5.0 mg/L	3
Lead, Total (H)	0.156 mg/L	0.091 mg/L	15
Magnesium	0.0636 mg/L	0.064 mg/L	9

Parameter Name	Current Benchmark	Proposed Benchmark	Source (*)
Mercury, Total	0.0024 mg/L	0.0014 mg/L	1
Nickel, Total (H)	2.679 mg/L	0.453 mg/L	15
Nitrate + Nitrite Nitrogen	0.68 mg/L	0.68 mg/L	7
Oil and Grease	15 mg/L	15 mg/L	8
pH	Range 5.0 - 9.0	Range 5.0 - 9.0	14
Phenols, Total	0.016 mg/L	0.016 mg/L	9
Selenium, Total	0.2385 mg/L	0.005 mg/L	1
Silver, Total (H)	0.0318 mg/L	0.0038 mg/L	1
Total Phosphorus	2.0 mg/L	2.0 mg/L	6
Total Suspended Solids	200 mg/L	150 mg/L	14
Zinc, Total (H)	0.395 mg/L	0.161 mg/L	15

(\*) Sources:

1. "EPA Recommended Ambient Water Quality Criteria." Acute Aquatic Life Freshwater (May 2005)
2. "EPA Recommended Ambient Water Quality Criteria." LOEL Acute Freshwater (EPA-440-5-80-024 October 1980)
3. "EPA Recommended Ambient Water Quality Criteria." Human Health for the Consumption of Organism Only (May 2005)
4. Secondary Treatment Regulations (40 CFR 133)
5. Factor of 4 times BOD5 concentration - Tennessee Benchmark
6. EPA Draft Multi-Sector General Permit (2006)
7. National Urban Runoff Program (NURP) median concentration
8. Median concentration of Storm Water Effluent Limitation Guideline (40 CFR Part 419)
9. Minimum Level (ML) based upon highest Method Detection Limit (MDL) times a factor of 3.18
10. Laboratory derived Minimum Level (ML)
11. Discharge limitations and compliance data
12. "EPA Recommended Ambient Water Quality Criteria." Chronic Aquatic Life Freshwater May 2005)
13. Colorado - Chronic Aquatic Life Freshwater - Water Quality Criteria
14. Best Professional Judgment based on monitoring data analyzed
15. Benchmark for metals, which are hardness and TSS dependent, were adjusted to in-stream allowable criteria using the hardness of 25 mg/L (most conservative assumption as defined in the General Water Quality Criteria) and TSS of 31 mg/L (median value of more than 8,200 TSS samples reported under previous permit).

Notes:

- (\*) Limit established for oil and gas exploration and production facilities only.  
(c) carcinogen  
(H) hardness dependent

Assumptions:

Receiving water temperature - 20 C  
Receiving water pH - 7.8  
Receiving water hardness CaCO<sub>3</sub> - 150 mg/L (except for Lead, Nickel and Zinc, where more conservative value of 25 mg/L was used)  
Receiving water salinity - 20 g/kg  
Acute to Chronic Ratio (ACR) - 10

As can be seen here, benchmark concentrations were determined based upon a number of existing standards or other sources to represent a level above which water quality concerns could arise. The division has sought to develop values that can realistically be measured and achieved by industrial facilities. Moreover, storm water discharges with pollutant concentrations occurring below these levels would not warrant further analytical monitoring due to their de minimus potential effect on water quality. The division believes that each of these benchmark values represents a reasonable level below which water quality impacts should not occur and they, therefore, represent a useful level to assess whether a pollution prevention plan is controlling pollution in the storm water discharges.

#### **5.11 Contents of the Notice of Intent section were updated to reflect contents of the new NOI form.**

No substantial changes were made to the NOI section; it was updated to reflect contents of the new NOI form. The mailing address where correspondence should be sent (official or local contact person) should be indicated on the NOI. E-mail addresses for both the official or local contact person are requested. A statement regarding whether the facility is required to perform certain types of chemical monitoring is not required on the new NOI form.

#### **5.12 Signatory Requirements were updated to reflect changes published in 40CFR 122.22 (71 FR 35039 June 16, 2006 Edition).**

The Notice of Intent (NOI) shall be signed as follows:

(a) *Applications.* All permit applications shall be signed as follows:

(1) *For a corporation.* By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

Note: EPA does not require specific assignments or delegations of authority to responsible corporate officers identified in §122.22(a)(1)(i). The Agency will presume that these responsible corporate officers have the requisite authority to sign permit applications unless the corporation has notified the Director to the contrary. Corporate procedures governing authority to sign permit applications may provide for assignment or delegation to applicable corporate positions under §122.22(a)(1)(ii) rather than to specific individuals.

(2) *For a partnership or sole proprietorship.* By a general partner or the proprietor, respectively; or

(3) *For a municipality, State, Federal, or other public agency.* By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having

responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

(b) All reports required by permits, and other information requested by the Director shall be signed by a person described in paragraph (a) of this section, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described in paragraph (a) of this section;

(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company, (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) and,

(3) The written authorization is submitted to the Director.

(c) *Changes to authorization.* If an authorization under paragraph (b) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (b) of this section must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.

(d) *Certification.* Any person signing a document under paragraph (a) or (b) of this section shall make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**5.13 Permit Eligibility Regarding Protection of Water Quality Standards and Compliance with State Anti-degradation Requirements: the permittee is required, pursuant to the terms and conditions of this permit, to comply with any applicable Waste Load Allocations (WLA), effluent limitations and schedules of compliance, required to implement applicable water quality standards, to comply with a State Water Quality Plan or other State or Federal laws or regulations, or where practicable, to comply with a standard permitting no discharge of pollutants.**

Pursuant to the Rules of the Tennessee Department of Environment and Conservation, Chapter 1200-4-3-.06, titled "Tennessee Antidegradation Statement," and in consideration of the department's directive in attaining the greatest degree of effluent reduction achievable in municipal, industrial, and other wastes, the permittee shall further be required, pursuant to the terms and conditions of this permit, to comply with any applicable Waste Load Allocations (WLA), effluent limitations and schedules of compliance, required to comply with applicable water quality standards, to comply with a State Water Quality Plan or

other State or Federal laws or regulations, or where practicable, to comply with a standard permitting no discharge of pollutants.

**5.14 Additional Storm Water Pollution Prevention Plan (SWPPP) requirements for discharges into impaired or high quality waters**

If the division has notified the facility operator that the estimated pollutant load is consistent with the Total Maximum Daily Limit (TMDL) and that the proposed storm water discharges meet the eligibility requirements of the TMSP and may be authorized under this permit, additional SWPPP requirements shall apply. Additional SWPPP requirements for discharges into impaired waters for a parameter present in the facility's storm water runoff, or discharges upstream of waters impaired by the same parameter, that may affect the impaired waters; and for discharges to waters identified by the department as high quality waters, or discharges upstream of high quality waters, that may affect the high quality waters, are as follows:

The Storm Water Pollution Prevention Plan shall be submitted to the appropriate Environmental Field Office (see list of EFOs in subpart 3.3 of the permit). This plan may be submitted with the NOI, but must be submitted prior to commencement of new industrial activities, or a change of industrial activity that would cause an increase of pollutant loading from the site into 303(d) listed waters or high quality waters.

The permittee shall perform the inspections (as described below) before anticipated storm events (or series of storm events such as intermittent showers over one or more days), and within 24 hours after the end of a storm event of 0.1 inches or greater, at a minimum frequency of once per month.

Qualified personnel shall inspect the areas of facility used for storage of significant materials that are exposed to precipitation, as well as structural and non-structural control measures at the site. Areas used for storage of significant materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Outfall points (where discharges from the site enter into 303(d) listed waters or high quality waters) shall be inspected to determine whether structural and non-structural control measures are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, nearby downstream locations shall be inspected if possible.

Based on the results of the inspection, any inadequate control measures or control measures in disrepair shall be replaced or modified, or repaired as necessary, before the next rain event if possible, but in no case more than 7 days after the need is identified. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable.

Based on the results of the inspection, the facility description and pollution prevention measures identified in the SWPPP shall be revised as appropriate, but in no case later than 14 calendar days following the inspection. Such modifications shall provide for timely implementation of any changes to the plan in no case later than 21 calendar days following the inspection.

Inspections shall be documented and include the scope of the inspection, name(s) and title or qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan (including the location(s) of discharges of pollutants from the site and of any control device that failed to operate as designed or proved inadequate for a particular location), and actions taken to prevent further discharge of pollutants from the site.

The permittee must certify on a quarterly basis that inspections of structural and non-structural control measures and of outfall points were performed and whether or not all planned and designed pollution prevention controls measures are installed and in working order. The certification must be done by a person who meets the signatory requirements of this permit. The certification should be kept with the facility's SWPPP and has to be submitted to the local Environmental Field Office upon request.

If the division finds that a discharge is causing a violation of water quality standards or causing or contributing to the impairment of a 303(d) listed water or any water identified as impaired since promulgation of the latest 303(d) list, and finds that the discharger is complying with storm water pollution prevention plan requirements of this permit, the discharger will be notified by the Director in writing that the discharge is no longer eligible for coverage under the general permit and that continued discharges must be covered by an individual permit. To obtain the individual permit, the operator must file an individual permit application.

**5.15 Sector Median Value was retained as a reference value for all permittees classified within a particular sector. Sector Median Value is a pollutant concentration calculated from all sampling results provided from facilities classified in this sector during the previous permit term.**

Sector Median Value is a pollutant concentration calculated from all sampling results provided from facilities classified in this sector during the previous permit term. By definition, a median is a statistical term identifying a number that divides numerically ordered data into two equal halves. In easier terms, the median is the middle piece of data when those data are placed in numerical order, or the average of the middle two if there is an even number of items. Therefore, median concentration(s) listed below represents a concentration value typical for and achieved by industries in this sector. The shaded parameters are required to be sampled within the applicable sector.

Sector	Parameter	Current Benchmark	Average	Median	Count
A	Aluminum, Total (pH 6.5-9)	0.75	2.8334	0.8000	95
	Ammonia	4	0.9189	0.2350	152
	Arsenic, Total (c)	0.16854	0.0364	0.0100	126
	Biochemical Oxygen Demand(5)	30	23.3026	6.0000	152
	Cadmium, Total (H)	0.0159	0.0341	0.0160	25
	Chemical Oxygen Demand	120	112.8201	44.0000	1109
	Chromium, Total	2	4.3544	0.0100	15
	Copper, Total (H)	0.0636	0.5475	0.0200	199
	Cyanide, Total	0.0636	0.0075	0.0100	5
	Fluoride	1.8	0.4575	0.3800	5
	Iron, Total	5	2.7661	0.7900	94
	Lead, Total (H)	0.1560	0.1384	0.0215	8
	Magnesium	0.0636	18.7192	0.2000	5
	Mercury, Total	0.0024	0.0010	0.0013	4
	Nickel, Total (H)	2.6790	0.0155	0.0060	5
	Nitrate + Nitrite Nitrogen	0.6800	3.0602	0.6400	83
	Oil and Grease	15	8.1579	5.0000	139
	pH	5-9	7.3280	7.3600	328
	Selenium, Total (*)	0.2385	0.0310	0.0100	5
	Silver, Total (H)	0.0318	197.4040	0.0070	6
	Total Phosphorus	2	7.2071	7.3050	18

Sector	Parameter	Current Benchmark	Average	Median	Count
	Total Suspended Solids	200	226.3600	35.3000	1473
	Zinc, Total (H)	0.3950	2.1038	0.0520	613
B	Aluminum, Total (pH 6.5-9)	0.75	0.5550	0.4800	4
	Ammonia	4	0.9085	0.4990	34
	Arsenic, Total (c)	0.16854	0.0693	0.0750	13
	Biochemical Oxygen Demand(5)	30	44.6333	7.0000	15
	Cadmium, Total (H)	0.0159	0.0321	0.0110	25
	Chemical Oxygen Demand	120	72.4515	50.0000	227
	Copper, Total (H)	0.0636	20.0000	20.0000	1
	Cyanide, Total	0.0636	0.0133	0.0100	12
	Iron, Total	5	1.8856	0.6200	27
	Lead, Total (H)	0.1560	0.0600	0.0600	13
	Magnesium	0.0636	19.2561	1.6550	16
	Mercury, Total	0.0024	0.0007	0.0010	12
	Nitrate + Nitrite Nitrogen	0.68	10.8500	13.4000	4
	Oil and Grease	15	4.2500	1.2000	10
	pH	5-9	7.1061	7.1000	38
	Selenium, Total (*)	0.2385	0.0813	0.1000	15
	Silver, Total (H)	0.0318	0.0091	0.0090	14
	Total Suspended Solids	200	66.7494	25.0000	83
	Zinc, Total (H)	0.395	1.5356	1.1000	9
C	Aluminum, Total (pH 6.5-9)	0.75	3.2219	0.8650	338
	Ammonia	4	4.0005	0.9000	117
	Arsenic, Total (c)	0.1685	0.0479	0.0510	15
	Biochemical Oxygen Demand(5)	30	30.9417	8.6000	139
	Cadmium, Total (H)	0.0159	0.0025	0.0010	9
	Chemical Oxygen Demand	120	92.7048	42.6000	125
	Chromium, Total	2	0.0382	0.0100	33
	Copper, Total (H)	0.0636	0.4896	0.0180	134
	Cyanide, Total	0.0636	0.0139	0.0100	13
	Fluoride	1.8	1.2465	0.7400	30
	Iron, Total	5	16.5255	0.9300	481
	Lead, Total (H)	0.1560	0.1796	0.0300	149
	Magnesium	0.0636	5.1402	3.4000	146
	Mercury, Total	0.0024	0.3544	0.0002	23
	Nickel, Total (H)	2.6790	0.5275	0.5700	4
	Nitrate + Nitrite Nitrogen	0.68	24.4362	0.4600	520
	Oil and Grease	15	4.2076	3.0000	135
	pH	5-9	7.2277	7.3000	210
	Selenium, Total (*)	0.2385	0.0398	0.0161	12
	Silver, Total (H)	0.0318	0.0053	0.0050	11
	Total Phosphorus	2	5.2594	0.7550	124
	Total Suspended Solids	200	109.7599	20.0000	296
	Zinc, Total (H)	0.395	13.0497	0.1260	505
D	Aluminum, Total (pH 6.5-9)	0.75	0.4353	0.1200	15
	Ammonia	4	0.1862	0.1000	132



Sector	Parameter	Current Benchmark	Average	Median	Count
	Arsenic, Total (c)	0.16854	0.0400	0.0100	3
	Biochemical Oxygen Demand(5)	30	4.0713	2.0000	126
	Cadmium, Total (H)	0.0159	0.0050	0.0050	2
	Chemical Oxygen Demand	120	56.0136	27.6500	22
	Copper, Total (H)	0.0636	0.0110	0.0100	3
	Cyanide, Total	0.0636	0.0050	0.0050	2
	Fluoride	1.8	0.1500	0.1500	2
	Iron, Total	5	1.2300	0.3440	15
	Lead, Total (H)	0.156	0.0131	0.0050	5
	Magnesium	0.0636	4.0067	5.4000	3
	Mercury, Total	0.0024	0.0002	0.0002	2
	Nickel, Total (H)	2.679	0.0100	0.0100	2
	Nitrate + Nitrite Nitrogen	0.68	0.3480	0.1000	5
	Oil and Grease	15	11.8959	1.7000	313
	pH	5-9	7.6839	7.7000	385
	Selenium, Total (*)	0.2385	0.0100	0.0100	2
	Silver, Total (H)	0.0318	0.0050	0.0050	2
	Total Phosphorus	2	2.2975	0.1950	4
	Total Suspended Solids	200	134.4580	21.0000	729
	Zinc, Total (H)	0.395	0.7593	0.0500	7
E	Aluminum, Total (pH 6.5-9)	0.75	5.69	1.0000	274
	Ammonia	4	1.2851	0.8000	55
	Arsenic, Total (c)	0.16854	0.1093	0.0050	21
	Biochemical Oxygen Demand(5)	30	40.4284	2.2750	56
	Cadmium, Total (H)	0.0159	0.0341	0.0120	21
	Chemical Oxygen Demand	120	191.7531	20.0000	81
	Chromium, Total	2	0.0792	0.0100	13
	Copper, Total (H)	0.0636	2.0834	0.0100	13
	Cyanide, Total	0.0640	0.0081	0.0010	8
	Fluoride	1.8	0.0813	0.0040	8
	Iron, Total	5	5.6736	1.2400	463
	Lead, Total (H)	0.156	0.0168	0.0020	21
	Magnesium	0.0636	1.1282	0.5600	11
	Mercury, Total	0.0024	0.0002	0.0001	17
	Nitrate + Nitrite Nitrogen	0.68	1.8475	0.7350	16
	Oil and Grease	15	3.2694	2.0000	48
	pH	5-9	8.2088	7.8000	203
	Selenium, Total (*)	0.2385	0.0288	0.0010	8
	Silver, Total (H)	0.0318	0.0025	0.0010	8
	Total Phosphorus	2	0.8244	0.1020	8
	Total Suspended Solids	200	395.0903	35.0000	544
	Zinc, Total (H)	0.395	1.2741	0.0500	46
F	Aluminum, Total (pH 6.5-9)	0.75	5.2327	0.9630	623
	Ammonia	4	0.7089	0.3400	31
	Arsenic, Total (c)	0.16854	0.0306	0.0500	9
	Biochemical Oxygen Demand(5)	30	31.9958	13.0000	34

Sector	Parameter	Current Benchmark	Average	Median	Count
	Cadmium, Total (H)	0.0159	0.0041	0.0020	38
	Chemical Oxygen Demand	120	79.9930	36.1650	388
	Chromium, Total	2	0.1483	0.0050	35
	Copper, Total (H)	0.0636	0.4563	0.0222	791
	Cyanide, Total	0.0636	0.0514	0.0470	5
	Iron, Total	5	9.5287	1.3000	504
	Lead, Total (H)	0.156	0.2444	0.0460	44
	Magnesium	0.0636	22.7252	9.7000	21
	Mercury, Total	0.0024	0.0002	0.0002	2
	Nickel, Total (H)	2.679	1.0000	1.0000	1
	Nitrate + Nitrite Nitrogen	0.68	3.8480	0.5855	256
	Oil and Grease	15	4.7589	3.6700	50
	pH	5-9	7.6729	7.6300	147
	Selenium, Total (*)	0.2385	0.0200	0.0050	3
	Silver, Total (H)	0.0318	0.0431	0.0104	3
	Total Phosphorus	2	4.8500	7.0000	3
	Total Suspended Solids	200	209.7901	38.0000	373
	Zinc, Total (H)	0.395	0.8034	0.1600	1043
G	No Sampling Data				
H	No Sampling Data				
I	No Sampling Data				
J	Aluminum, Total (pH 6.5-9)	0.75	16.4517	8.2000	11
	Iron, Total	5.00	0.0871	0.0074	3
	Lead, Total (H)	0.156	0.0330	0.0330	3
	Nitrate + Nitrite Nitrogen	0.68	0.9841	0.3000	86
	Oil and Grease	15	0.1235	0.1000	17
	pH	5-9	7.0805	7.4000	60
	Total Suspended Solids	200	221.3965	125.0000	113
K	Aluminum, Total (pH 6.5-9)	0.75	1.6204	0.2210	55
	Ammonia	4	1.0097	0.2490	119
	Arsenic, Total (c)	0.16854	0.0480	0.0275	58
	Biochemical Oxygen Demand(5)	30	11.3876	10.0000	31
	Cadmium, Total (H)	0.0159	0.0014	0.0025	73
	Chemical Oxygen Demand	120	51.7138	33.0000	116
	Chromium, Total	2	0.0187	0.0050	13
	Copper, Total (H)	0.0636	0.0862	0.0800	17
	Cyanide, Total	0.064	0.0211	0.0100	78
	Fluoride	1.8	0.1215	0.1200	13
	Iron, Total	5	11.6059	1.3850	70
	Lead, Total (H)	0.156	0.1356	0.0420	120
	Magnesium	0.0636	3.5918	1.9300	113
	Mercury, Total	0.0024	0.1012	0.0002	80
	Nitrate + Nitrite Nitrogen	0.68	1.4222	0.4950	32
	Oil and Grease	15	6.4167	5.0000	24
	pH	5-9	7.1752	7.0500	44
	Selenium, Total (*)	0.2385	0.0483	0.0100	67

Sector	Parameter	Current Benchmark	Average	Median	Count
	Silver, Total (H)	0.0318	0.0073	0.0050	65
	Total Phosphorus	2	0.3150	0.3100	6
	Total Suspended Solids	200	111.6725	46.0000	69
	Zinc, Total (H)	0.395	0.1684	0.0970	45
L	Aluminum, Total (pH 6.5-9)	0.75	6.2748	1.5150	438
	Ammonia	4	1.0828	0.3500	93
	Arsenic, Total (c)	0.16854	0.0350	0.0150	13
	Biochemical Oxygen Demand(5)	30	13.0769	5.8200	145
	Cadmium, Total (H)	0.0159	0.2551	0.0060	13
	Chemical Oxygen Demand	120	92.3931	40.0000	152
	Chromium, Total	2	0.0080	0.0080	4
	Copper, Total (H)	0.0636	0.2201	0.0280	143
	Cyanide, Total	0.0636	0.0152	0.0125	10
	Fluoride	1.8	0.7160	0.2000	5
	Iron, Total	5	48.3631	1.7000	1357
	Lead, Total (H)	0.156	0.2318	0.0420	84
	Magnesium	0.0636	12.5181	5.3000	239
	Mercury, Total	0.0024	0.0005	0.0002	7
	Nickel, Total (H)	2.679	0.0200	0.0200	1
	Nitrate + Nitrite Nitrogen	0.68	0.5886	0.2400	235
	Oil and Grease	15	4.5519	3.6300	38
	pH	5-9	7.6674	7.4550	106
	Selenium, Total (*)	0.2385	0.0353	0.0100	9
	Silver, Total (H)	0.0318	67.3368	6.0125	18
	Total Phosphorus	2	4.3630	0.9300	10
	Total Suspended Solids	200	160.5564	30.0000	1244
	Zinc, Total (H)	0.395	3.2242	0.1250	170
M	Aluminum, Total (pH 6.5-9)	0.75	2.7819	0.6700	1435
	Ammonia	4	0.4390	0.1000	90
	Arsenic, Total (c)	0.16854	0.5230	0.0100	23
	Biochemical Oxygen Demand(5)	30	10.1936	4.4000	69
	Cadmium, Total (H)	0.0159	0.0113	0.0020	17
	Chemical Oxygen Demand	120	60.8060	44.2100	69
	Chromium, Total	2	33.2334	29.4000	3
	Copper, Total (H)	0.0636	0.4121	0.0275	43
	Cyanide, Total	0.0636	0.0131	0.0050	8
	Fluoride	1.8	0.5270	0.1000	7
	Iron, Total	5	3.4517	0.7300	1419
	Lead, Total (H)	0.156	0.1020	0.0420	1368
	Magnesium	0.0636	5.9367	2.9250	18
	Mercury, Total	0.0024	0.0005	0.0002	8
	Nickel, Total (H)	2.679	0.5434	0.0080	5
	Nitrate + Nitrite Nitrogen	0.68	3.5729	1.0300	7
	Oil and Grease	15	5.3524	5.0000	78
	pH	5-9	7.0806	7.3000	98
	Selenium, Total (*)	0.2385	0.0383	0.0050	11

Sector	Parameter	Current Benchmark	Average	Median	Count
	Silver, Total (H)	0.0318	21.5510	0.0050	15
	Total Phosphorus	2	5.8105	0.5600	11
	Total Suspended Solids	200	82.2727	19.0000	1451
	Zinc, Total (H)	0.395	0.6232	0.1600	71
N	Aluminum, Total (pH 6.5-9)	0.75	6.7829	1.8800	555
	Ammonia	4	0.4846	0.2080	69
	Arsenic, Total (c)	0.16854	0.7926	0.0126	21
	Biochemical Oxygen Demand(5)	30	24.2140	7.0000	49
	Cadmium, Total (H)	0.0159	0.0286	0.0037	21
	Chemical Oxygen Demand	120	135.0056	66.0000	539
	Chromium, Total	2	19.9736	0.0900	5
	Copper, Total (H)	0.0636	0.4557	0.0650	507
	Cyanide, Total	0.0640	0.0137	0.0160	11
	Fluoride	1.8	1.0315	0.3400	13
	Iron, Total	5	9.6250	3.1300	553
	Lead, Total (H)	0.156	1.3990	0.0500	498
	Magnesium	0.0636	9.3355	3.5000	19
	Mercury, Total	0.0024	0.0003	0.0002	10
	Nickel, Total (H)	0.4530	0.0371	0.0200	8
	Nitrate + Nitrite Nitrogen	0.68	0.4293	0.2500	65
	Oil and Grease	15	6.4601	5.0000	57
	pH	5-9	8.3980	7.6650	96
	Selenium, Total (*)	0.2385	0.0351	0.0100	13
	Silver, Total (H)	0.0318	0.0130	0.0060	14
	Total Phosphorus	2	1.4687	0.2050	16
	Total Suspended Solids	200	232.5628	67.5000	566
	Zinc, Total (H)	0.395	0.9813	0.2110	514
O	Aluminum, Total (pH 6.5-9)	0.75	1.7925	1.0900	4
	Ammonia	4	0.3750	0.2500	4
	Arsenic, Total (c)	0.16854	36.7000	10.0000	3
	Biochemical Oxygen Demand(5)	30	12.5000	14.0000	4
	Cadmium, Total (H)	0.0159	0.0040	0.0020	4
	Chemical Oxygen Demand	120	1625.4250	63.9500	4
	Copper, Total (H)	0.0636	0.0322	0.0185	4
	Cyanide, Total	0.0636	0.0100	0.0100	4
	Fluoride	1.8	0.2950	0.2750	4
	Iron, Total	5	93.1132	1.6000	645
	Lead, Total (H)	0.156	0.4071	0.0290	7
	Magnesium	0.0636	6.2300	2.1650	4
	Mercury, Total	0.0024	0.0631	0.0262	4
	Nickel, Total (H)	2.679	0.7060	0.0715	4
	Nitrate + Nitrite Nitrogen	0.68	1.8437	0.8800	4
	Oil and Grease	15	8.3333	5.0000	3
	pH	5-9	6.4250	6.4500	4
	Selenium, Total (*)	0.2385	27.5846	5.1192	4
	Silver, Total (H)	0.0318	0.0140	0.0110	4

Sector	Parameter	Current Benchmark	Average	Median	Count
	Total Phosphorus	2	0.7650	0.4550	4
	Total Suspended Solids	200	319.3063	19.6000	111
	Zinc, Total (H)	0.395	0.8197	0.6195	4
P	Aluminum, Total (pH 6.5-9)	0.75	4.8335	1.2000	591
	Ammonia	4	2.0733	0.3000	237
	Arsenic, Total (c)	0.16854	0.0212	0.0100	72
	Biochemical Oxygen Demand(5)	30	21.5311	7.6000	371
	Cadmium, Total (H)	0.0159	0.0173	0.0020	49
	Chemical Oxygen Demand	120	106.2425	50.0000	744
	Chromium, Total	2	18.7353	0.0800	8
	Copper, Total (H)	0.0636	0.4360	0.0300	321
	Cyanide, Total	0.0636	0.0132	0.0100	28
	Fluoride	1.8	1.1633	0.3800	33
	Iron, Total	5	7.1963	1.5090	860
	Lead, Total (H)	0.156	2.6751	0.0420	238
	Magnesium	0.0636	7.6276	5.0000	160
	Mercury, Total	0.0024	0.0008	0.0002	36
	Nickel, Total (H)	2.679	0.0115	0.0100	4
	Nitrate + Nitrite Nitrogen	0.68	2.6612	0.3750	389
	Oil and Grease	15	7.7120	5.0000	252
	pH	5-9	7.4488	7.4400	461
	Selenium, Total (*)	0.2385	0.0064	0.0021	27
	Silver, Total (H)	0.0318	53.3437	0.0033	41
	Total Phosphorus	2	6.7980	6.4000	50
	Total Suspended Solids	200	195.9411	35.0000	1562
	Zinc, Total (H)	0.395	2.5563	0.1155	614
Q	Aluminum, Total (pH 6.5-9)	0.75	2.3815	0.5170	60
	Ammonia	4	1.8628	1.0000	14
	Biochemical Oxygen Demand(5)	30	97.6333	3.2500	12
	Chemical Oxygen Demand	120	614.8000	420.0000	5
	Iron, Total	5	2.6717	0.7900	60
	Lead, Total (H)	0.156	0.0194	0.0050	47
	Nitrate + Nitrite Nitrogen	0.68	3.6800	0.8900	9
	Oil and Grease	15.0	6.2500	2.0000	12
	pH	5-9	7.5690	7.2900	10
	Total Suspended Solids	200	315.2046	11.0000	18
	Zinc, Total (H)	0.395	0.1763	0.0925	54
R	Lead, Total (H)	0.156	4.6548	4.6548	2
	pH	5-9	7.0150	7.0150	2
	Total Suspended Solids	200	265.5000	265.5000	2
S	Aluminum, Total (pH 6.5-9)	0.75	6.4909	1.8800	21
	Ammonia	4	0.6720	0.4400	27
	Arsenic, Total (c)	0.16854	0.0050	0.0025	11
	Biochemical Oxygen Demand(5)	30	20.1972	12.4000	32
	Cadmium, Total (H)	0.0159	0.0014	0.0013	10
	Chemical Oxygen Demand	120	72.4869	46.4000	60

Sector	Parameter	Current Benchmark	Average	Median	Count
	Chromium, Total	2	49.8500	49.8500	2
	Copper, Total (H)	0.0636	1.1725	0.0184	14
	Cyanide, Total	0.0636	0.0050	0.0050	2
	Iron, Total	5	6.3770	3.5800	25
	Lead, Total (H)	0.156	0.0447	0.0330	23
	Magnesium	0.0636	12.9660	5.2000	5
	Mercury, Total	0.0024	0.0002	0.0002	2
	Oil and Grease	15	5.7000	5.0000	7
	pH	5-9	7.6154	7.7000	35
	Selenium, Total (*)	0.2385	0.0036	0.0037	6
	Silver, Total (H)	0.0318	0.0022	0.0013	6
	Total Suspended Solids	200	186.3204	49.7000	49
	Zinc, Total (H)	0.395	0.2721	0.1800	19
T	No Sampling Data				
U	Aluminum, Total (pH 6.5-9)	0.75	1.1000	1.1000	1
	Ammonia	4	2.7803	0.5000	80
	Biochemical Oxygen Demand(5)	30	28.2779	8.0650	328
	Cadmium, Total (H)	0.0159	0.0840	0.0840	1
	Chemical Oxygen Demand	120	96.7275	43.0000	325
	Copper, Total (H)	0.0636	7.5000	7.5000	2
	Fluoride	1.8	0.6533	0.4950	24
	Iron, Total	5.0	1.3400	1.0355	144
	Lead, Total (H)	0.156	0.0070	0.0057	6
	Nitrate + Nitrite Nitrogen	0.68	1.5259	0.4000	322
	Oil and Grease	15	7.8853	4.0000	75
	pH	5-9	7.2622	7.3000	143
	Silver, Total (H)	0.0318	150.0000	125.0000	8
	Total Phosphorus	2	8.3086	6.4000	22
	Total Suspended Solids	200	86.6338	28.0000	582
	Zinc, Total (H)	0.395	8.2648	0.0830	25
V	Aluminum, Total (pH 6.5-9)	0.75	2.2288	0.1000	30
	Ammonia	4	0.3352	0.2900	27
	Arsenic, Total (c)	0.16854	0.0067	0.0050	4
	Biochemical Oxygen Demand(5)	30	5.3320	4.0000	25
	Cadmium, Total (H)	0.0159	0.0020	0.0020	26
	Chemical Oxygen Demand	120	47.6030	29.0000	33
	Chromium, Total	2	0.0050	0.0050	26
	Copper, Total (H)	0.0636	0.0425	0.0100	34
	Iron, Total	5	1.7377	0.0100	30
	Oil and Grease	15	3.5514	3.0000	36
	pH	5-9	7.7349	7.6900	58
	Total Suspended Solids	200	95.9216	28.0000	37
	Zinc, Total (H)	0.395	0.0828	0.0040	42
W	Aluminum, Total (pH 6.5-9)	0.75	0.7573	0.5000	19
	Ammonia	4	0.3700	0.3700	1
	Chemical Oxygen Demand	120	102.3026	69.0000	38

Sector	Parameter	Current Benchmark	Average	Median	Count
	Iron, Total	5	1.3707	0.6400	19
	Nitrate + Nitrite Nitrogen	0.68	1.3137	0.7200	19
	Oil and Grease	15	5.0000	5.0000	1
	pH	5-9	7.3875	7.2500	8
	Total Phosphorus	2	23.0000	23.0000	1
	Total Suspended Solids	200	184.5049	36.6000	42
	Zinc, Total (H)	0.395	0.2481	0.1400	47
X	Total Suspended Solids	200	--	--	--
Y	Aluminum, Total (pH 6.5-9)	0.75	1.5271	0.3100	101
	Ammonia	4	2.3311	0.2790	97
	Arsenic, Total (c)	0.16854	0.3600	0.3600	1
	Biochemical Oxygen Demand(5)	30	13.6071	8.6000	119
	Cadmium, Total (H)	0.0159	0.0020	0.0020	1
	Chemical Oxygen Demand	120	57.4849	37.5000	66
	Copper, Total (H)	0.0636	0.0331	0.0180	28
	Fluoride	1.8	0.3000	0.3000	1
	Iron, Total	5	2.1679	0.5020	127
	Lead, Total (H)	0.156	0.0072	0.0072	2
	Magnesium	0.0636	4.0818	2.6000	11
	Nitrate + Nitrite Nitrogen	0.68	1.3894	0.5165	124
	Oil and Grease	15	5.4844	5.0000	82
	pH	5-9	7.8527	7.2000	133
	Total Phosphorus	2	0.0200	0.0200	1
	Total Suspended Solids	200	169.8197	30.0000	174
	Zinc, Total (H)	0.395	1.9796	0.1000	783
Z	Aluminum, Total (pH 6.5-9)	0.75	0.3620	0.3620	1
	Iron, Total	5	0.5810	0.5810	1
	Magnesium	0.0636	3.6400	3.6400	1
	Total Suspended Solids	200	17.2000	17.2000	1
AA	Aluminum, Total (pH 6.5-9)	0.75	3.6880	0.5750	2064
	Ammonia	4	0.6159	0.2900	141
	Arsenic, Total (c)	0.16854	0.0284	0.0050	22
	Biochemical Oxygen Demand(5)	30	15.5482	8.0000	142
	Cadmium, Total (H)	0.0159	0.0063	0.0050	37
	Chemical Oxygen Demand	120	60.1224	42.0000	243
	Chromium, Total	2	0.0194	0.0100	189
	Copper, Total (H)	0.0636	0.2376	0.0140	297
	Cyanide, Total	0.0636	0.0087	0.0050	32
	Fluoride	1.8	0.3910	0.1150	34
	Iron, Total	5	3.6585	0.6600	2009
	Lead, Total (H)	0.156	0.0769	0.0330	106
	Magnesium	0.0636	4.4883	1.2500	26
	Mercury, Total	0.0024	0.0004	0.0002	32
	Nickel, Total (H)	2.679	0.0467	0.0500	11
	Nitrate + Nitrite Nitrogen	0.68	3.0608	0.4650	2379
	Oil and Grease	15	4.6973	2.5000	143

Sector	Parameter	Current Benchmark	Average	Median	Count
	pH	5-9	7.3716	7.2000	359
	Selenium, Total (*)	0.2385	0.0330	0.0100	22
	Silver, Total (H)	0.0318	0.0159	0.0070	26
	Total Phosphorus	2	1.6560	0.1400	23
	Total Suspended Solids	200	103.1795	18.0000	395
	Zinc, Total (H)	0.395	1.3216	0.1250	2493
AB	Aluminum, Total (pH 6.5-9)	0.75	1.4866	0.4200	316
	Ammonia	4	0.4869	0.2260	52
	Arsenic, Total (c)	0.16854	0.0300	0.0300	1
	Biochemical Oxygen Demand(5)	30	15.3115	11.0000	53
	Cadmium, Total (H)	0.0159	0.0020	0.0010	3
	Chemical Oxygen Demand	120	115.9437	61.4000	87
	Chromium, Total	2	0.0690	0.0190	6
	Copper, Total (H)	0.0636	0.1404	0.0300	72
	Cyanide, Total	0.0636	0.0123	0.0100	3
	Fluoride	1.8	0.3640	0.3640	1
	Iron, Total	5	1.7888	0.4320	250
	Lead, Total (H)	0.156	0.0931	0.0420	12
	Magnesium	0.0636	53.0000	53.0000	1
	Mercury, Total	0.0024	0.0005	0.0002	6
	Nickel, Total (H)	2.679	0.0605	0.0605	2
	Nitrate + Nitrite Nitrogen	0.68	1.1566	0.4330	282
	Oil and Grease	15	6.8803	4.0000	36
	pH	5-9	8.5456	7.5000	75
	Selenium, Total (*)	0.2385	0.0050	0.0050	1
	Silver, Total (H)	0.0318	0.0050	0.0050	2
	Total Phosphorus	2	1.3100	1.3100	1
	Total Suspended Solids	200	279.5067	31.5000	86
	Zinc, Total (H)	0.395	0.2675	0.0900	389
AC	Aluminum, Total (pH 6.5-9)	0.75	15.7181	0.8700	154
	Ammonia	4	0.6856	0.3000	18
	Arsenic, Total (c)	0.16854	0.0378	0.0500	4
	Biochemical Oxygen Demand(5)	30	7.8800	6.0000	15
	Cadmium, Total (H)	0.0159	0.0090	0.0060	4
	Chemical Oxygen Demand	120	46.0714	29.0000	14
	Chromium, Total	2	0.0114	0.0100	5
	Copper, Total (H)	0.0636	0.0235	0.0250	4
	Cyanide, Total	0.0636	0.0152	0.0200	4
	Iron, Total	5	2.5965	0.6200	157
	Lead, Total (H)	0.156	0.0354	0.0330	10
	Magnesium	0.0636	1.2311	0.5345	8
	Mercury, Total	0.0024	0.0002	0.0002	4
	Nickel, Total (H)	2.679	0.6700	0.6400	3
	Nitrate + Nitrite Nitrogen	0.68	1.2164	0.5850	156
	Oil and Grease	15	6.2231	5.0000	13
	pH	5-9	7.6263	7.7000	27



Sector	Parameter	Current Benchmark	Average	Median	Count
AD	Selenium, Total (*)	0.2385	0.0565	0.0750	4
	Silver, Total (H)	0.0318	0.0040	0.0040	4
	Total Suspended Solids	200	112.7210	53.0000	31
	Zinc, Total (H)	0.395	7.4828	0.1300	154
	Aluminum, Total (pH 6.5-9)	0.75	3.2631	0.8100	123
	Ammonia	4	1.0120	0.2600	427
	Arsenic, Total (c)	0.16854	0.0247	0.0044	39
	Biochemical Oxygen Demand(5)	30	45.0771	6.0000	439
	Cadmium, Total (H)	0.0159	0.0044	0.0020	43
	Chemical Oxygen Demand	120	113.1987	41.7000	494
	Chromium, Total	2	16.6248	0.0145	6
	Copper, Total (H)	0.0636	0.4848	0.0290	40
	Cyanide, Total	0.0636	0.0084	0.0100	27
	Fluoride	1.8	0.6533	0.4950	24
	Iron, Total	5	6.3531	1.4000	135
	Lead, Total (H)	0.156	0.1878	0.0310	97
	Magnesium	0.0636	2.2422	0.7825	62
	Mercury, Total	0.0024	0.0009	0.0003	34
	Nickel, Total (H)	2.679	0.6700	0.6400	3
	Nitrate + Nitrite Nitrogen	0.68	4.0695	0.7750	114
	Oil and Grease	15	6.1722	4.1200	358
	pH	5-9	7.5781	7.4000	467
	Selenium, Total (*)	0.2385	0.0232	0.0024	29
	Silver, Total (H)	0.0318	0.0035	0.0025	32
	Total Phosphorus	2	8.2691	7.0000	23
	Total Suspended Solids	200	144.5192	39.0000	523
	Zinc, Total (H)	0.3950	4.5313	0.1700	131
AE	No Sampling Data				

**5.16 The facility may discontinue permit coverage under TMSP if it is eligible for the “no exposure” permit exemption.**

The following text has been retained in the new TMSP:

The facility may discontinue permit coverage under TMSP if it is eligible for the “no exposure” permit exemption. “No exposure” permit exemption is a conditional exclusion applicable to all categories of industrial activity (except construction activity) with no exposure of industrial materials and activities to storm water. All facilities with point source discharges of storm water associated with industrial activity that satisfy criteria of no exposure and complete a no exposure certification form will be able to obtain exclusion from NPDES storm water permitting under TMSP.

A condition of no exposure exists at an industrial facility when all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of

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any raw material, intermediate product, final product or waste product. A storm resistant shelter is not required for the following industrial materials and activities:

- drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated and do not leak. “Sealed ” means banded or otherwise secured and without operational taps or valves;
- adequately maintained vehicles used in material handling; and
- final products, other than products that would be mobilized in storm water discharges (e.g., rock salt).

A no exposure certification must be provided for each facility qualifying for the no exposure exclusion. In addition, the exclusion from NPDES permitting is available on a facility-wide basis only, not for individual outfalls. If any industrial activities or materials are or will be exposed to precipitation, the facility is not eligible for the no exposure exclusion.

No exposure certification renewals must be submitted five years from the time they are first submitted (assuming the facility still qualifies for the exemption). If conditions change at a facility such that renewed TMSP coverage is needed, the facility may submit an NOI requesting renewed coverage.

Facilities that qualify for and submit a “no exposure” certification are no longer authorized by nor required to comply with this permit. Furthermore, facilities that are no longer required to have permit coverage due to a “no exposure” exclusion, are not required to submit a Notice of Termination.

A copy of no exposure certification form can be obtained by requesting a copy of the form at the address listed below, from the division’s Environmental Field Office responsible for the county where the facility is located (see list of EFOs subpart 3.3 of the permit), or at the department’s web page for the TMSP (<http://www.state.tn.us/environment/permits/strmh2o.htm>). One (1) signed copy of no exposure certification form shall be submitted to the division at the following address:

<p><b>Permit Section – No Exposure Certification Processing</b> <b>Tennessee Division of Water Pollution Control</b> <b>6th Floor L &amp; C Annex</b> <b>401 Church Street</b> <b>Nashville, TN 37243-1534</b></p>
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## 6 Permit Issuance and Public Notice Procedures

- This general permit is drafted in accordance with applicable NPDES regulations (40 CFR 122, 123, 124, and 125), the Tennessee Water Quality Control Act (T.C.A. § 69-3-101, et.seq.), and the department’s permit issuance regulations at TN Rule 1200-4-10-.01, 02, and 03.
- The applicable regulations for issuance of this general permit are found in 40 CFR 122.28 and 123.44, and the regulations for fact sheet requirements are found in 40 CFR 124.8 and 124.56.
- The division will publish notice of its intent to issue the TMSP for storm water discharges associated with industrial activity and notice of one or more public hearings to receive comments on the draft permit. At least 30 days notice will be given for the public hearings. Comments will be received at least 10 ten days after the last hearing. Any interested person may request copies of the Rationale Sheet and draft permit and submit written comments on the draft permit.

For additional information contact:

**Mr. Jim McAdoo**  
**Tennessee Division of Water Pollution Control**  
**6th Floor L & C Annex**  
**401 Church Street**  
**Nashville, TN 37243-1534**

**Phone:** (615) 532-0684  
**E-mail:** Storm.Water@state.tn.us  
**URL:** <http://www.tdec.net/permits/strmh2o.shtml>

TMSP Rationale 2006.doc